5000 Series



Rack Mount

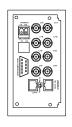
Description

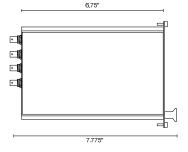
Nitek's FRS581110R00 is an eight channel Universal-Mode™ video receiver. Nitek's unique Universal-Mode™ optics allow the same unit to be used with 1 single-mode or multi-mode fiber optic

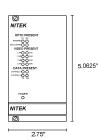
unit to be used with 1 single-mode or multi-mode fiber optic cabling types.

The **5000 Series** fiber optic transmission systems are designed to provide multi-channel, point-to-point, broadcast quality video transmission at an affordable cost, without compression. The video transmission at an affordable cost, without compromise. The video is transmitted in a real time full bandwidth digital format. This insures the highest quality regardless of distance. By transmitting the video in an uncompressed format, there is no latency or loss of video quality. The 5000 Series uses Coarse Wavelength Division Multiplexing (CWDM) to transmit 2 wavelength channels for video transmission on a single optical fiber.

Automatic gain control is built into the 5000 Series receivers making this a "plug-and-play" video system, requiring no field setup or adjustments. Receivers are equipped with LED indicators which provide an at-a-glance operating and optics state.







Features

- Real time digital transmission eliminates signal degradation associated with distance.
- Universal-Mode™ allows the same unit to be used with multi-mode or single-mode fiber without any set up or field configuration.
- Wide dynamic range. No adjustments are required for installation, 'plug and play'.
- Configurations available in single fiber and twin fiber configurations.
- Receivers equipped with front panel LED status indicators provide at-a-glance diagnostics of the systems video and optics state.
- Front panel LED status indicators provide at-a-glance status monitoring.
- Modular rack mount card provides flexible system design.

Ordering Information

Fiber Type	Part #	Compatible Transmitters	# Fibers	Loss Budget	Connector	Max Distance
Multi-Mode 62.5/125μm Single-Mode 9/125 μm	FRS581110R00	FTS581110S00 FTS581110R00	1	17dB	LC	Multi-Mode Fiber 1,640 ft (3/10 mile) Single-Mode Fiber >130,000 ft (24.5 miles)
Description	FRS581110R00 Video Receiver					
Accessories	FSR1000 Sub Rack					





Video

Compression None, uncompressed Input / output level 1V P/P, nominal Input / output impedance 75 Ohm unbalanced Frequency response 10Hz to 5.57MHz min. 7.5MHz cut off

Differential gain 2% Differential phase 2°

Signal to noise ratio 67dB, 10 bit conversion

Video connectionBNCOptical connectionLCVideo standardNTSC/PAL

Optical

Accepts both multi- and single-mode fiber

62.5/125 Multi-mode 9/125 Single-mode Wavelength 1310nm 1550 option 1550nm Single fiber option 1310/1550nm **CWDM** 1310-1610nm Path loss 17dB min. HP option 22dB min. 22dB min. CWDM option

Data

Data interface RS232, RS422 (full duplex, two wire) RS485 (half duplex, two wire)

Slide switch selectable

Data rate per channel

Up to 512kb/s w/o Ethernet

Up to 256kb/s w/ Ethernet

Ethernet

Data interface 10/100BaseT auto negotiate

Data connector RJ45

General

Operating temperature 5º to 160º Fahrenheit
Operating humidity 0 to 95% non-condensing
Power requirements 12-24VAC or DC @ 300ma

Green LED

Indicators Power

Video sync Green LED/channel

Mechanical

Height 3U
Width 2 card slots
Depth 7.775"

In our continued effort to "Bridge the Gap in Technology", product specifications are subject to change without notice.

System Design

